

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P253300

Luminaire Tested: **J2-WL-40L840-1D-UNV-STD-DLED-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L840-1D-UNV-STD-DLED-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3824.2 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

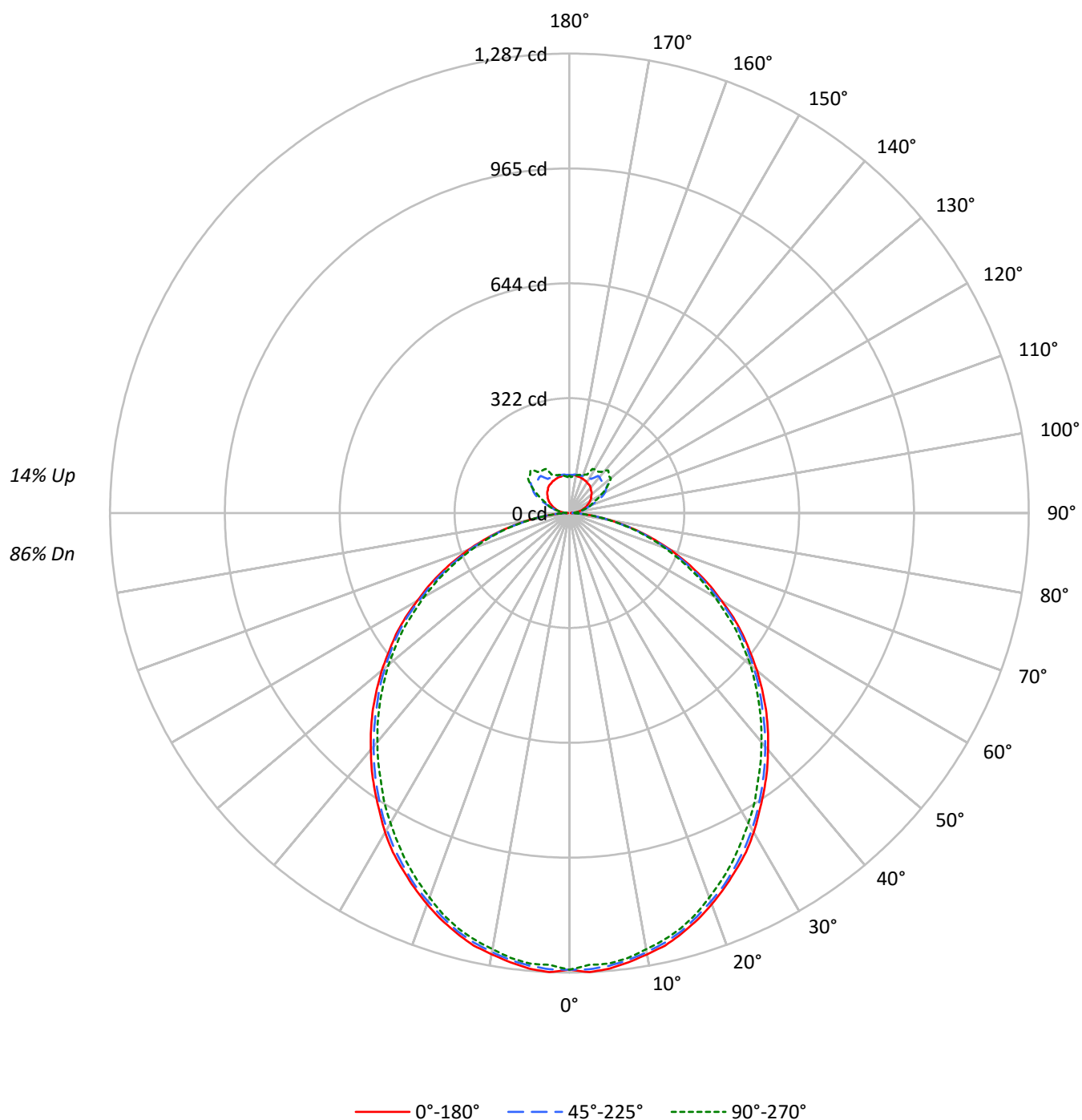
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10324	10324	10324
5°	10380	10314	10266
10°	10285	10235	10170
15°	10183	10132	10065
20°	10016	9948	9844
25°	9829	9756	9613
30°	9628	9533	9345
35°	9363	9264	9065
40°	9120	8992	8822
45°	8889	8705	8567
50°	8613	8461	8309
55°	8346	8234	8006
60°	7947	7816	7589
65°	7591	7398	7167
70°	7095	6904	6666
75°	6419	6291	6104
80°	5439	5346	5253
85°	4113	4298	4113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.2
10°-20°	340.4	8.9
20°-30°	502.0	13.1
30°-40°	585.1	15.3
40°-50°	588.3	15.4
50°-60°	518.1	13.5
60°-70°	382.4	10.0
70°-80°	211.9	5.5
80°-90°	55.2	1.4
90°-100°	19.6	0.5
100°-110°	50.6	1.3
110°-120°	82.1	2.1
120°-130°	102.5	2.7
130°-140°	96.3	2.5
140°-150°	75.9	2.0
150°-160°	52.3	1.4
160°-170°	30.8	0.8
170°-180°	10.2	0.3
0°-30°	962.9	25.2
0°-40°	1548.0	40.5
0°-60°	2654.3	69.4
0°-90°	3303.8	86.4
90°-120°	152.3	4.0
90°-150°	427.1	11.2
90°-180°	520.0	13.6
0°-180°	3824.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1281	1267	1273	1269	1267	121
15°	1218	1206	1212	1206	1204	343
25°	1103	1093	1095	1081	1079	508
35°	950	942	940	924	920	595
45°	779	771	762	752	750	600
55°	593	587	585	573	569	529
65°	397	393	387	379	375	393
75°	206	204	202	196	196	218
85°	44	46	46	44	44	52
90°	4	8	8	8	8	5
95°	14	16	18	18	18	15
105°	38	52	46	50	46	40
115°	56	91	93	81	79	57
125°	75	103	127	131	129	66
135°	87	97	127	157	155	67
145°	97	101	121	139	141	60
155°	101	105	111	119	119	47
165°	105	105	111	113	111	30
175°	107	107	107	107	103	10
180°	105	105	105	105	105	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.9	1278.9	1278.9	1278.9	1278.9
2.5°	1287.0	1272.8	1278.9	1274.9	1266.8
5°	1280.9	1266.8	1272.8	1268.8	1266.8
7.5°	1268.8	1256.7	1262.8	1258.7	1256.7
10°	1254.7	1242.6	1248.6	1242.6	1240.6
12.5°	1240.6	1226.4	1232.5	1224.4	1224.4
15°	1218.4	1206.3	1212.3	1206.3	1204.3
17.5°	1194.2	1182.1	1186.1	1180.0	1178.0
20°	1165.9	1153.8	1157.9	1149.8	1145.8
22.5°	1135.7	1125.6	1129.6	1115.5	1113.5
25°	1103.4	1093.3	1095.3	1081.2	1079.2
27.5°	1071.1	1057.0	1061.0	1044.9	1040.9
30°	1032.8	1020.7	1022.7	1006.6	1002.5
32.5°	990.4	982.4	982.4	966.2	964.2
35°	950.1	942.0	940.0	923.9	919.8
37.5°	909.7	899.7	897.6	879.5	879.5
40°	865.4	857.3	853.3	839.1	837.1
42.5°	823.0	812.9	808.9	794.8	794.8
45°	778.6	770.6	762.5	752.4	750.4
47.5°	732.2	724.2	720.1	708.0	706.0
50°	685.8	679.8	673.7	663.7	661.6
52.5°	637.4	633.4	629.4	619.3	613.2
55°	593.0	587.0	585.0	572.9	568.8
57.5°	544.6	538.6	536.6	522.4	516.4
60°	492.2	486.1	484.1	472.0	470.0
62.5°	445.8	439.7	435.7	427.6	423.6
65°	397.4	393.3	387.3	379.2	375.2
67.5°	349.0	344.9	338.9	332.8	328.8
70°	300.6	296.5	292.5	284.4	282.4
72.5°	252.1	248.1	244.1	240.0	240.0
75°	205.8	203.7	201.7	195.7	195.7
77.5°	159.4	157.3	155.3	153.3	153.3
80°	117.0	117.0	115.0	113.0	113.0
82.5°	78.7	78.7	78.7	76.7	76.7
85°	44.4	46.4	46.4	44.4	44.4
87.5°	18.2	18.2	18.2	18.2	18.2
90°	4.0	8.1	8.1	8.1	8.1
92.5°	8.1	10.1	12.1	14.1	12.1
95°	14.1	16.1	18.2	18.2	18.2
97.5°	22.2	24.2	24.2	24.2	24.2
100°	28.2	32.3	30.3	32.3	30.3
102.5°	34.3	42.4	42.4	38.3	38.3
105°	38.3	52.4	46.4	50.4	46.4
107.5°	42.4	64.5	54.5	56.5	58.5
110°	48.4	72.6	66.6	60.5	62.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.4	88.8	78.7	70.6	68.6
115°	56.5	90.8	92.8	80.7	78.7
117.5°	62.5	90.8	104.9	94.8	90.8
120°	66.6	96.8	115.0	106.9	102.9
122.5°	70.6	100.9	121.0	121.0	117.0
125°	74.6	102.9	127.1	131.1	129.1
127.5°	76.7	96.8	137.2	143.2	141.2
130°	80.7	92.8	135.2	145.2	151.3
132.5°	84.7	94.8	131.1	147.3	151.3
135°	86.7	96.8	127.1	157.3	155.3
137.5°	88.8	98.8	129.1	151.3	161.4
140°	92.8	98.8	131.1	143.2	155.3
142.5°	94.8	100.9	131.1	137.2	145.2
145°	96.8	100.9	121.0	139.2	141.2
147.5°	96.8	102.9	113.0	141.2	141.2
150°	98.8	102.9	113.0	141.2	141.2
152.5°	100.9	104.9	110.9	123.0	139.2
155°	100.9	104.9	110.9	119.0	119.0
157.5°	102.9	104.9	110.9	117.0	117.0
160°	102.9	104.9	110.9	115.0	113.0
162.5°	104.9	104.9	108.9	113.0	110.9
165°	104.9	104.9	110.9	113.0	110.9
167.5°	104.9	106.9	108.9	110.9	108.9
170°	106.9	106.9	108.9	108.9	106.9
172.5°	106.9	106.9	108.9	106.9	104.9
175°	106.9	106.9	106.9	106.9	102.9
177.5°	106.9	104.9	106.9	104.9	100.9
180°	104.9	104.9	104.9	104.9	104.9

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